

WEST Search History

DATE: Wednesday, August 20, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	
<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>			
L11	L10 and l7	4	L11
L10	L9 and (dna or cdna or nucleic acid or polynucleotide)	6	L10
L9	L8 and (corynebacteria or corynebacteria glutamicum)	6	L9
L8	CcpA1 or catabolite control protein A or ccpa	148	L8
L7	L6 or l5 or l4 or l3 or l2 or l1	33617	L7
L6	((536/23.1)!.CCLS.)	9234	L6
L5	((530/350)!.CCLS.)	11257	L5
L4	((435/320.1)!.CCLS.)	19151	L4
L3	((435/252.32)!.CCLS.)	126	L3
L2	((435/252.3)!.CCLS.)	7222	L2
L1	((435/69.1)!.CCLS.)	14033	L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 6 of 6 returned.**

1. Document ID: US 20020197605 A1

L10: Entry 1 of 6

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197605
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020197605 A1

TITLE: Novel Polynucleotides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc
Image												

2. Document ID: US 20020151001 A1

L10: Entry 2 of 6

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151001
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020151001 A1

TITLE: Nucleotide sequences coding for the ccpA1 gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc
Image												

3. Document ID: US 20020120116 A1

L10: Entry 3 of 6

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120116
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020120116 A1

TITLE: ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

4. Document ID: US 20020068336 A1

L10: Entry 4 of 6

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020068336

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020068336 A1

TITLE: Nucleotide sequences which code for the CcpA2 gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

5. Document ID: US 6583275 B1

L10: Entry 5 of 6

File: USPT

Jun 24, 2003

US-PAT-NO: 6583275

DOCUMENT-IDENTIFIER: US 6583275 B1

TITLE: Nucleic acid sequences and expression system relating to Enterococcus faecium for diagnostics and therapeutics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

6. Document ID: US 6245502 B1

L10: Entry 6 of 6

File: USPT

Jun 12, 2001

US-PAT-NO: 6245502

DOCUMENT-IDENTIFIER: US 6245502 B1

** See image for Certificate of Correction **

TITLE: Target system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

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Terms	Documents
L9 and (dna or cdna or nucleic acid or polynucleotide)	6

Display Format:

[Previous Page](#) [Next Page](#)

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(FILE 'HOME' ENTERED AT 12:58:55 ON 20 AUG 2003)

FILE 'REGISTRY' ENTERED AT 13:01:17 ON 20 AUG 2003

L*** DEL 1 S CCPA/CN

D

FILE 'HCAPLUS' ENTERED AT 13:01:29 ON 20 AUG 2003

L1 407 SEA ABB=ON PLU=ON CCPA1 OR CATABOLITE CONTROL PROTEIN A OR
CCPA

L2 6 SEA ABB=ON PLU=ON L1 (L) (CORYNEBACTERIA OR CORYNEBACTERIA
GLUTAMICUM OR (BACTERIA (L) CORYNEFORM))

L3 2 SEA ABB=ON PLU=ON L2 (L) (DNA OR CDNA OR NUCLEIC ACID OR
POLYNUCLEOTIDE)

=> d l2 ibib ab 1-6

L2 ANSWER 1 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:511512 HCPLUS
DOCUMENT NUMBER: 139:80187
TITLE: Genetically modified Corynebacterium glutamicum with genes dctQ and sodit inactivated for the fermentative production of lysine
INVENTOR(S): Farwick, Mike; Bathe, Brigitte; Brehme, Jennifer; Schischka, Natalie; Pfefferle, Walter
PATENT ASSIGNEE(S): Degussa Ag, Germany
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003054207	A2	20030703	WO 2002-EP13287	20021126
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

DE 10163167 A1 20030703 DE 2001-10163167 20011221

PRIORITY APPLN. INFO.: DE 2001-10163167 A 20011221

AB **Coryneform bacteria** are provided for the enhanced prodn. of L-amino acids. Specifically, the invention relates to a process for the prepn. of L-amino acids consisting of the fermn. of microorganisms of the **coryneform bacteria** which produce the desired L-amino acid and in which the dctQ and sodit genes, or the nucleotides sequence which codes for them are attenuated. In particular the process provides **coryneform bacteria** producing the desired L-amino acid, in which one or more of the following genes are overexpressed: lysC, lysE, gap, pyc, zwf, mqo, zwa1, tpi, pgk, and dapA. At the same time one or more of the following genes are are attenuated of eliminated: ccpA1, pck, pgi, poxB, fda, and zwa2. Thus, Corynebacterium glutamicum strain DSM5715 was transformed with the pCR2.1dctQint plasmid which inserts into the dctQ gene to inactivate transcription of the C4-dicarboxylate transport protein. Transformed clones produced 14.8 g/L lysine in batch fermn. as compared to 13.5 g/L for the wild type strain.

L2 ANSWER 2 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:511511 HCPLUS
DOCUMENT NUMBER: 139:80187
TITLE: Genetically modified Corynebacterium glutamicum with gene dctA inactivated for the fermentative production of lysine
INVENTOR(S): Brehme, Jennifer; Schischka, Natalie; Marx, Achim
PATENT ASSIGNEE(S): Degussa A.-G., Germany
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003054206	A1	20030703	WO 2002-EP11488	20021015

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10162650 A1 20030703 DE 2001-10162650 20011220

PRIORITY APPLN. INFO.: DE 2001-10162650 A 20011220

AB **Coryneform bacteria** are provided for the enhanced prodn. of L-amino acids. Specifically, the invention relates to a process for the prepn. of L-amino acids consisting of the fermn. of microorganisms of the **coryneform bacteria** which produce the desired L-amino acid and in which the *dctA* gene, or the nucleotides sequence which codes for it is attenuated. In particular the process provides **coryneform bacteria** producing the desired L-amino acid, in which one or more of the following genes are overexpressed: *lysC*, *lysE*, *gap*, *pyc*, *zwf*, *mgo*, *zwa1*, *tpi*, *pgk*, and *dapA*. At the same time one or more of the following genes are are attenuated or eliminated: *ccpA1*, *pck*, *pgi*, *poxB*, *fba*, and *zwa2*. Thus, *Corynebacterium glutamicum* strain DSM5715 was transformed with the pCR2.1dctAint plasmid which inserts into the *dctA* gene to inactivate transcription of the C4-dicarboxylate transport protein. Transformed clones produced 15.0 g/L lysine in batch fermn. as compared to 13.5 g/L for the wild type strain.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:377055 HCPLUS

DOCUMENT NUMBER: 138:380500

TITLE: Protein and nucleic acid sequence of aspartate kinase gene *lysC* and production of chemical compounds by fermentation from **Coryneform bacteria**

INVENTOR(S): Bathe, Brigitte; Kreutzer, Caroline; Moeckel, Bettina; Thierbach, Georg

PATENT ASSIGNEE(S): Degussa AG, Germany

SOURCE: PCT Int. Appl., 127 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003040373	A2	20030515	WO 2002-EP8464	20020730
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2001-309878P P 20010806

AB The invention relates to **coryneform bacteria** which have, in addn. to at least one copy, present at the natural site (locus), of an open reading frame (ORF), gene or allele which codes for the synthesis of a protein or an RNA. In each case a second, optionally third or fourth copy of this open reading frame (ORF), gene or allele at in each case a second, optionally third or fourth site in a form integrated into the chromosome and processes for the prepn. of chem. compds. by fermn. of these bacteria.

The nucleotide and protein sequence of *Corynebacterium* aspartate kinase gene *lysC* allele is presented. The invention provides a process for the prepn. of L-lysine by fermn.

L2 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:221847 HCAPLUS

DOCUMENT NUMBER: 138:237017

TITLE: Methionine production by *Corynebacterium glutamicum* with attenuated *metK* and *brnQ* genes

INVENTOR(S): Bathe, Brigitte; Pfefferle, Walter; Huthmacher, Klaus

PATENT ASSIGNEE(S): Degussa AG, Germany

SOURCE: PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003023044	A2	20030320	WO 2002-EP9043	20020813
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

DE 10144493 A1 20030703 DE 2001-10144493 20010911

PRIORITY APPLN. INFO.: DE 2001-10144493 A 20010911

AB A process and **coryneform** bacterium is provided for the prodn. of L-amino acids in which the following steps are carried out: Fermn. of the **coryneform** bacteria producing the desired L-amino acid, in which at least the gene coding for S-adenosylmethionine synthetase (*metK*) and/or the gene coding for a branched-chain amino acid transport protein (*brnQ*) is/are attenuated. Enrichment of the desired L-amino acid in the medium or in the bacterial cells, followed by isolation of the L-amino acid. In addn., expression of the genes in the biosynthetic pathway for the desired L-amino acid are enhanced, while at the same time genes that code for the biosynthesis of other amino acids are attenuated. In particular the process provides **coryneform** bacteria producing the desired L-amino acid, in which one or more of the following genes are overexpressed: *lysC*, *gap*, *pyc*, *zwf*, *mqa*, *zwaf*, *tpi*, *pgk*, *hom*, *metA*, *metB*, *metE*, *metH*, *aecD*, *glyA*, and *metY*. At the same time one or more of the following genes are are attenuated or eliminated: *thrB*, *ilvA*, *thrC*, *ddh*, *ccpA1*, *pck*, *pgi*, *poxB*, *fba*, and *zwaf*. In a preferred embodiment, *Corynebacterium glutamicum* strain ATCC 21608 is porvided for the fermentative prodn. of L-methionine.

L2 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:171941 HCAPLUS

DOCUMENT NUMBER: 136:231332

TITLE: Sequence of *ccpA2* gene from *corynebacteria* and use thereof in synthesis of L-lysine

INVENTOR(S): Moeckel, Bettina; Kreutzer, Caroline; Hermann, Thomas; Farwick, Mike; Marx, Achim; Pfefferle, Walter

PATENT ASSIGNEE(S): Degussa Ag, Germany

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002018429	A1	20020307	WO 2001-EP7386	20010628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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DE 10123071	A1	20020307	DE 2001-10123071	20010511
AU 2001091658	A5	20020313	AU 2001-91658	20010628
EP 1313759	A1	20030528	EP 2001-971740	20010628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002068336	A1	20020606	US 2001-938642	20010827
PRIORITY APPLN. INFO.:			DE 2000-10042053 A	20000826
			DE 2001-10123071 A	20010511
			WO 2001-EP7386 W	20010628

AB The ccpA2 gene of Corynebacterium glutamicum ATCC13032 encoding a catabolite control protein A is cloned for use in increasing the efficiency of ferment. of L-lysine by coryneform bacteria. The expression vector contg. ccpA2 gene is constructed. Methods and culture media for fermentative prepn. of L-lysine with recombinant bacterial strains transformed with these vectors are also provided. Disruption of the ccpA2 gene by integration mutagenesis using ccpA2 expression vector increased the yield of lysine in a Corynebacterium host from 13.53 g lysine/L at 7.9 OD660 to 14.94 g lysine/L at 8.1 OD660. The fermentatively prep'd. L-lysine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:171931 HCAPLUS

DOCUMENT NUMBER: 136:231329

TITLE: Sequence of ccpA1 gene from corynebacteria and use thereof in synthesis of L-lysine

INVENTOR(S): Moeckel, Bettina; Kreutzer, Caroline

PATENT ASSIGNEE(S): Degussa Ag, Germany

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018419	A2	20020307	WO 2001-EP8356	20010719
WO 2002018419	A3	20021031		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10110052	A1	20020307	DE 2001-10110052	20010302
AU 2002012114	A5	20020313	AU 2002-12114	20010719
EP 1311685	A2	20030521	EP 2001-980214	20010719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002151001	A1	20021017	US 2001-938540	20010827

PRIORITY APPLN. INFO.:

DE 2000-10042054 A 20000826
DE 2001-10110052 A 20010302
US 2001-279413P P 20010329
WO 2001-EP8356 W 20010719

AB The **ccpA1** gene of *Corynebacterium glutamicum* ATCC13032 encoding a **catabolite control protein A** is cloned for use in increasing the efficiency of ferment. of L-lysine by **coryneform bacteria**. The expression vector contg. **ccpA1** gene is constructed. Methods and culture media for fermentative prepn. of L-lysine with recombinant bacterial strains transformed with these vectors are also provided. Disruption of the **ccpA1** gene by integration mutagenesis using **ccpA1** expression vector increased the yield of lysine in a *Corynebacterium* host from 13.01 g lysine/L at 7.5 OD660 to 14.24 g lysine/L at 7.7 OD660. The fermentatively prepnd. L-lysine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.